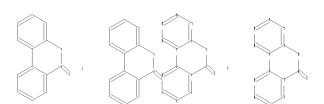
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exact/norm bonds:
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normalized bonds:
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Match level:
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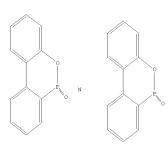
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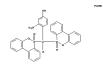
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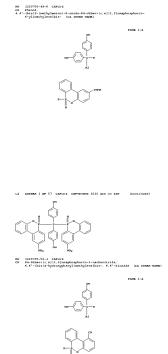
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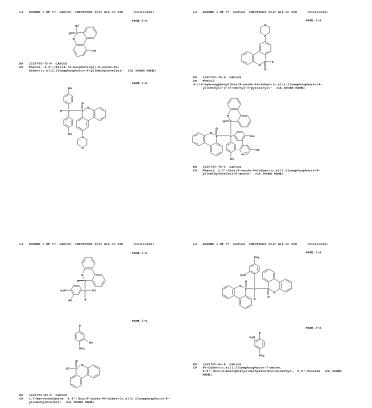
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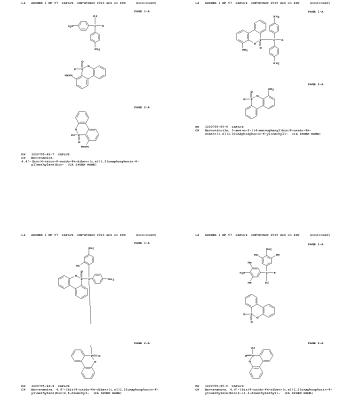
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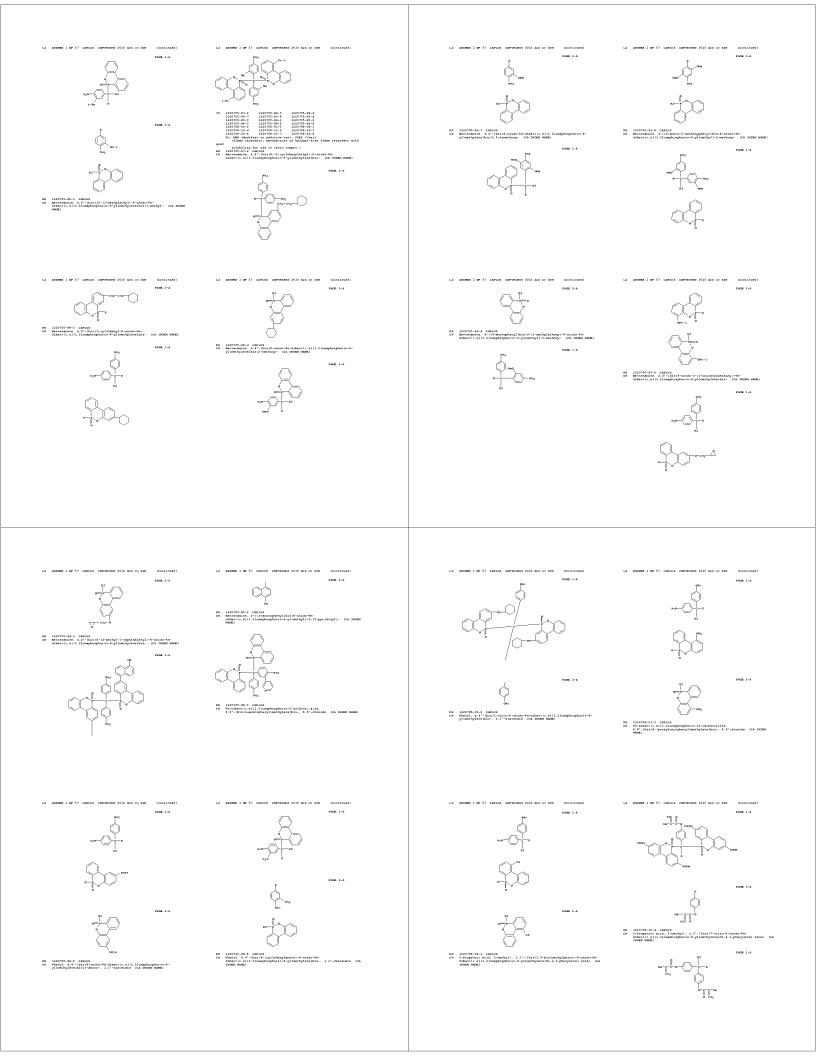
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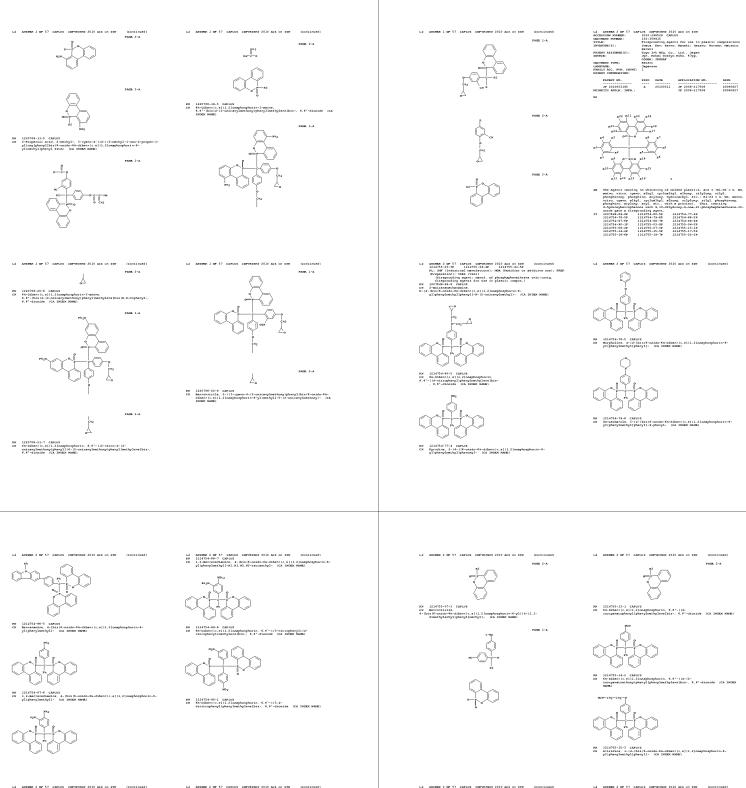


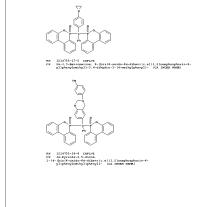


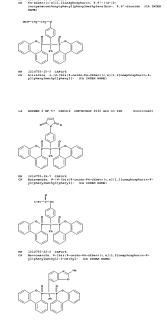


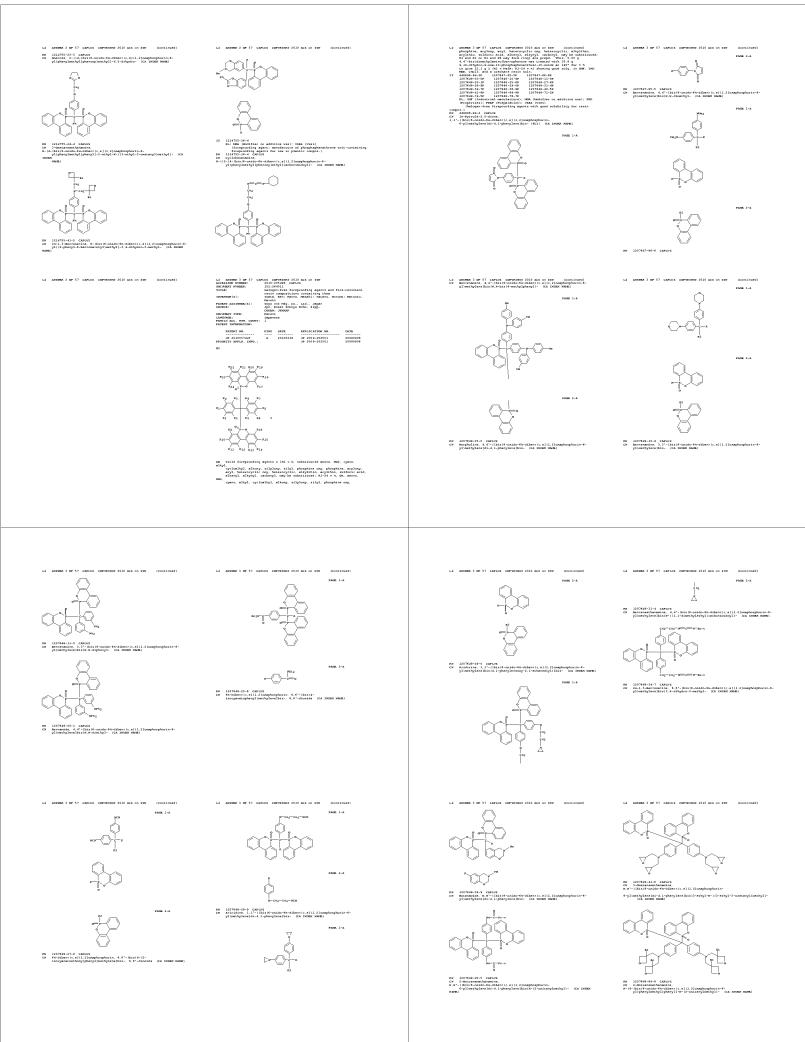










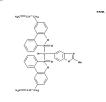




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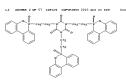








- G = 6-ono-dihenzic.elil.21-onephosphosin-6-y2. S = N. R = R. Cl-22 organy1. n = 1-10: S = 2.4,6-trisono-1.3.5-trisonie-1.3.5-triy2. R = G. n



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| Commercial Commercia



Title compns. comprise bennomarine compds. I [R] = 33, MMp-Ced-pH[co](Ced-o-H5o); N2 - MF = 0.1-6 alky1, [un])substituted ary1; k_i a, n = 0-4, integer; u = 1-10, integer; $k_i = u$ -walken tooppoint tus; o, p = 0-5, integer], spoxy reminx, and thermally cationic curing catalysts. Thus, a Cu-clad laminate comprising a glass fiber-resinforced plastic

- LA DATMER 6 OF 37 CAPOIE COMPUSED 2019 ACC on ETM (Continued) n = 0, n =



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- *** ETRICATES CARAMAN IS NOT AVAILABLE ***
 SU 110042-66-0 CARAMA
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- (Manactant or rangent)
 (fire-resistant Cu-clad leminates containing benzomaxine
 ment-granalinked
- compound-crosslinked spory resins)

 W 13514-66-2 CAPUNS
 CN 20-1,5-mennomasins, 3,5'-(oxydi-4,1-phanylens)bix|d-(6-oxido-64-dibent, a|11,2|oxsphosphocin-6-y1)-3,4-dibydro- (CA INNEX NAME)

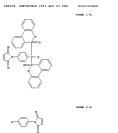
polymer was prepared using epoxy resin and functionally

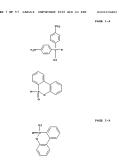
inethylsiloxane. The purity and structural conformation of these ials were ascertained from FTIM and MRM spectral studies. The

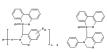
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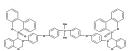
- The present invention provides phosphorus-based onerine compds. I [n = 1-16; N = bond, divalent corgano secure; V = [no]substituted acy2: Bn = corgano, batterograms query, set.; and the preparation method thereof. phosphorus-based onerine compds, of the present invention can provide better file-resistant obsertionistics, while the preparation method for the modern extracessame contenteration, while the proposition enthod for physical properties of the present content copy of the properties of 1-physical endow high principle physical-and content copy). Thus, of 1-physical-physical-physical endow hallow a properties of 1-physical-ph

- (1 CITIMME)
 29 THEFE ARE 29 CITED PEPERFENCES AVAILABLE FOR
- compds.)

 SM 156(18)-75-2 CAPLYX

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 oxido-64-dihene|c,e||1,2|oxephosphorin-6-y2|- (CA INCEX MARK)





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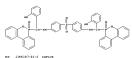
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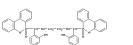
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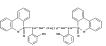
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PM 135146-64-2 CAPLAN
CH 204-1,3-Bannouaxins, 3,3" (onydi-4,1-phanyless)bill4-(6-onido-68-dbenic,sill,2)comphophocia-6-93/1-3,4-dbydro- (CA INSEX NAME)





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The enentioners are isolated out of the diastereowers. The invention relates to the process for preparation of chiral methylphospholene es. The enantiomers of 1-aryl-, 1-alkyl- and 1-alkony-3-methyl-3-phospholene 1-oxides and 1-phonyl-3-methyl-3-phospholene 1-solfide were separated in

ocologia no i-phenyi-i-manugu-i-mungua-mungatana.

good yialda and high amantiometic ancessas (up to 1994 as) by resolution via by mal, complex feromation with instancia acid decive. Thus, example compour (-1-l-maghiby)-3-methy)-3-phospholene l-oxide (I) was prepared via feromation. ekson of diastereometric complex of recemic 1-nephthyl-3-methyl-3-phospholem 1-oxide with (-1-12%, 30)-a,q,q',q'-tetraphoryl-1, 4 diomaspico(4-5)decem-2,-3-dimethonol in Acoma,/humann mixtuce (95% yield

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13 or 31 CAPLUS CONTUSHET 2010 ACS on EDM 1000:1461303 CAPLUS 1011:14046 CAPLUS 1011:14046 CAPLUS 1011:1404 CAPLUS 1011:1404 CAPLUS 1011:1404 CAPLUS Peterso, Onne; Viadriubulae, Tachita: Mancise, Coresiis VIKCE: 'P. Peni 'Institute of Maccomoleculae Chemistry

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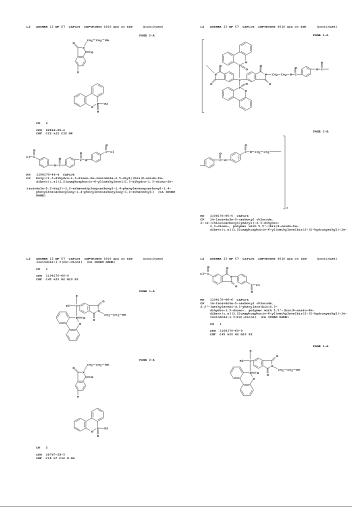
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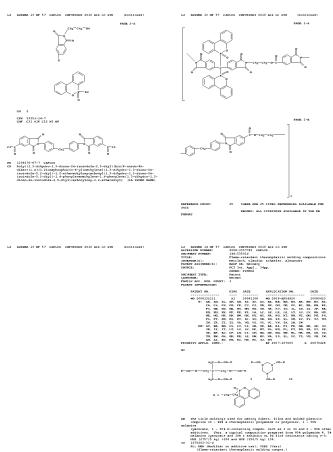
polymers were readily soluble in polar organic solvents, such as N-methylpyrrolidone, N,N-dimethylacetamide and N,N-dimethylicomenside.

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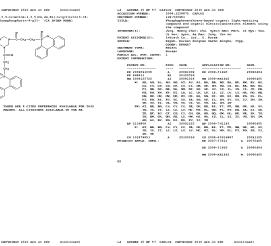
ouphaphenanthrene-10-onide/phenoxy)-1,3,5-la I. The compound is prepared by reaction of haphenenthren-10-oxide and nolume at 3-00, splac vatio of 1:1-1,1) in tolume at 3-00, , filtering, washing the vention of the containing introductate, restricts of characteristics of seciolat and 2.4,6-technique-1,3,5-technique in presence of phase-transfer catalyst in organic solvent, cooling to 1-10°C, dripping 5-20% Madk aquaous solution into the reaction system in

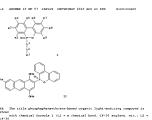
CMW 1109170-60-0 CMW C45 H32 N2 010 P2 phosphorus groups)
TN 1108170-61-1 CAPLUS
CN 1,4-Bennenedicerbonyl dic CM 2 CBN 100-20-9 CHF C0 H4 C12 O2 5.5% | bis | 6 = onido = 64 = dibenn | c. e | | 1.2 | onaphosphorin = 6 = y1 | methylene | bis | 2 = (1 hydroxysthyl) = 14 = 4 soindols = 1.3 (24) = dions | (cs. 1902x Mass.) (Continue)

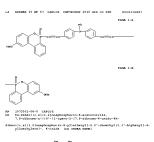




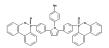








- FM 1075501-00-2 CAPLNE CN 9H-Carbanole, 9-sthy1-3,6-bix(y1)- (CA INDEX MAME)





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June 1003 and 7 (20008 A 4005 * 1) shows the potential of this hardener to the contraction typicam while leaping explanar properties on a high level expectably when compared to a similar system (20008 A 100 * 1); June 100 and 1

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8,2%)-2-|(6-oxido-64-diben:|c,e||1,2|camphosphorin-6-y1)cxy|-1-methy1 2-phanylethy1|-N-methy1-, 6-oxide (CA INCEN NAME)

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BM 302013-60-] CARTUIT.
CH 61s-Chann (c. g. | 1, 1) cosephosphosphoczn-2-amins, 6, 6'-1], 4-botznenddy(1)52-, 6, 6'-4-0, botznenddy(1)52-, 6, 6'-4-0, botznenddy(1)52-, 6, 6'-4-0, botznenddy(1)52-, 6, 6'-4-0, botznenddy(1)52-, botzne

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their influence on the fire properties assessed, in particular for flarembility [limiting oxygen index, VL 90) and developing fires [come calorimeter with different external heat fluxes of 35, 50, and 70 kW policies with different neuronal base Chance of 35, 56, and 70 to 10.

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INT-4 = H or Cl-4 alkyl; and X is a single bond selected from one of -CN2-, -C(CN3)2-, -0-, -2-, -CO-, -CO-, and -E2-), and is prepared from 5, 10-dibyto-9-com-10-phorphaphananthrans-10-oxide and bizzalizated as

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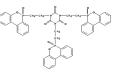
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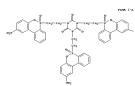
Amino-substituted cyclic phosphonetes I and II |Y = IME: Q = bi- or trifunctional optionally substituted hydrocarbyl or haterocyclyl bridge, R. = H. alkyl, alkonyalkyl, (acyl)aminoslkyl; n = 1, 2) useful as co-polymetrable flame retardant agents for sponder essies, were prepared by mitration of unsubstituted betarocytles I and II (), 5: Y = H) to give

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EN 903597-30-6 CAPLUE CN 1,4-Benzenedicerboxylic acid, bix[2-(2-nitro-6-oxido-6H-dibens|c.ell.20xenboxphoxin-6-yl]esbyll esser (CA INCEX MARK.



L4 AMEMER 26 OF 57 CAPLUE COPYRIGHT 2010 ACE on SIM (Continued)

3-bis i l²-l²-nitro-6-oxido-64-dibent | c, e1|1, 2|oxephosphorin-6-y1|ethy1|-5-|2-(4-nitro-6-oxido-64-dibent | c, e1|1, 2|oxephosphorin-6-y1|ethy1|- (CA 1900x News)

L4 AMENER 26 OF 57 CAPLIE COPYRIGHT 2010 ACE on EIN (Continued)

i. 3-bis i R- (2-amino-6-oxido-6it-dibenn | c. al II. 2 lonaphosphorin-6-y2) auby1]-5-|R-(4-amino-6-oxido-6it-dibenn | c. al II. 2 lonaphosphorin-6-y2) auby1]- | ICA | ISOMA (MMG)

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TORNISS and a sureint containing 5th composition consisting of monolate view in fugiciary 75(1) 00, undersome/particle pulphyser-monolate excellations of the containing of th

4 CAPLUS arins=2,4-diamins, M,M'-bix||6-oxido-6H-elll.2loxaphosphorin=6-yllomthyll=6-phenyl= (9CI) (CA IMUMN

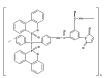
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CM 2 CRM 55739-70-0 CMF C12 H7 N 06



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were added spp. to the spony resin and the mixts, were crued with if in a rubstockhiometric resio. The addition of such 0000-compdi-to obsprowed flower statedarmy at low phosphorus contents of about 20 100 of additive) without significantly affecting other important circ such as fective temperates [Dail and glass tensition]

resture
[19] of the matrix. Meither the type nor the amount of additive a
the fracture toughness of cored epoxies up to additive comens, of
10 and 246. Furthermore, the loss in glass transition temperature

transition temperature of the spony system minkly due to a higher access
recombining controls. The creating segmented in this stophy highlight the
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we window of conversion. Described differential Laminus elements of special control of the contr

in Inglish proposes these approaches to obtain flame-retardent bencommings. In first approache, we symbolise a nowell bencomming flower, from a construction of the proposes o

physics of the physic

IM 900733-00-0 CAPLUS CM Phanco. (A "-sethylanehis (2-111 (6-oxido-fn-dihens (c. e.) [1, 2] oxephosph ylinethyl jphenylaninolinethyl) (GA IMEEN MARK)

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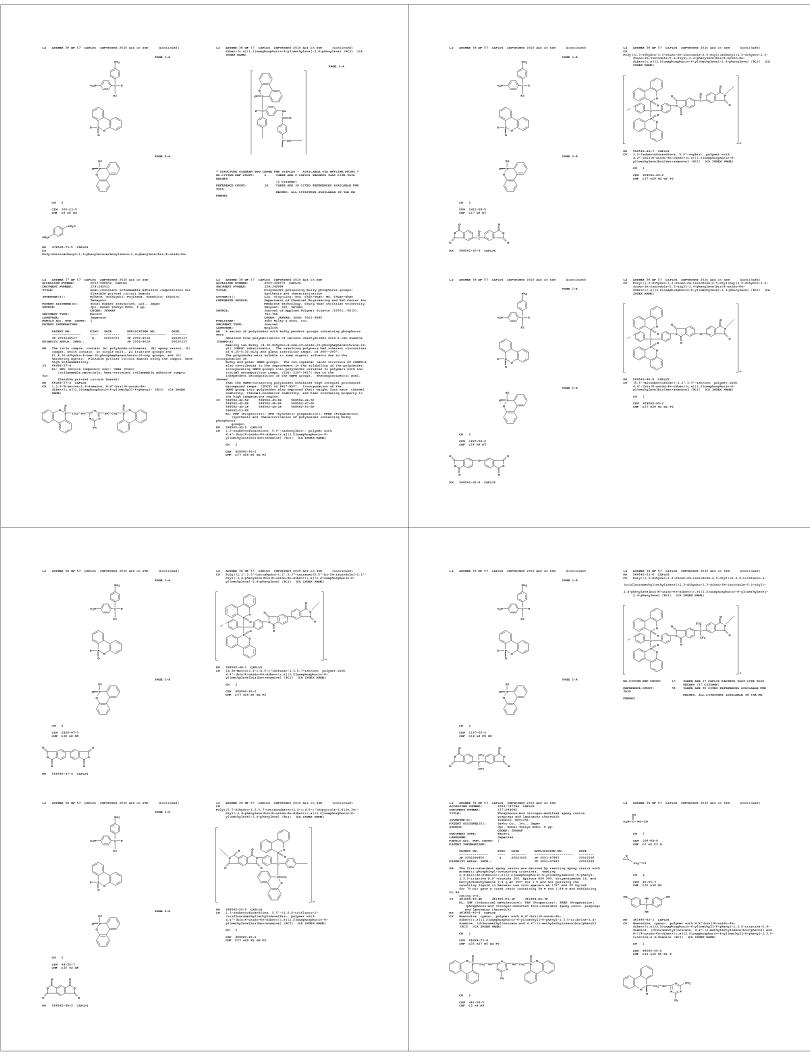
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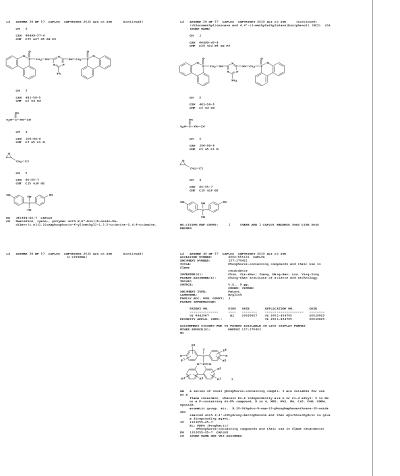
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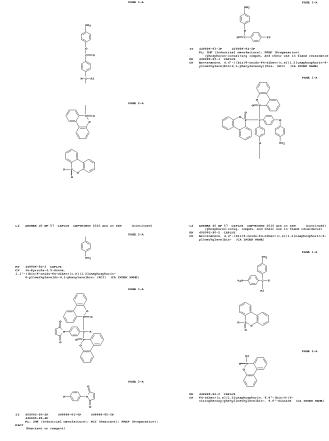
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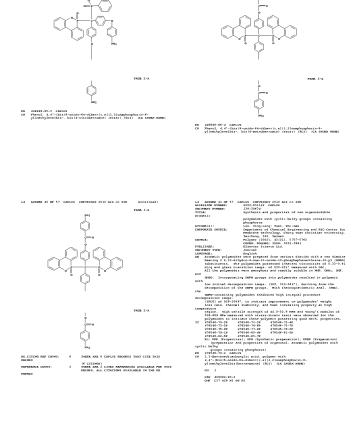
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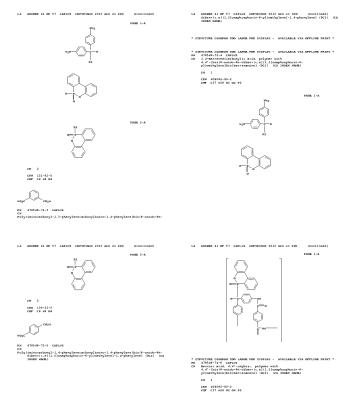








PAGE 1-A



L4 AMENUM 41 or 57 CAPLUE COPYRIGHT 2010 ACE on SIM (Continued) t4 ANSMER 43 or 57 CAPLUE COPYRIGHT 2010 ACE on EIN (Continued) 1,4-phenylenel (9C1) (CA INDEX NESS) * SIRNCIVEE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT * CBN 409002-90-2 CBF C37 H20 N2 04 P2 PAGE 1-A CRM 2 CRM 2215-89-8 CRM C14 H10 05 но2с Со2н IN 478546-35-7 CAPUMS Poly (oxy-1, 4-phenylanecae honylissino-1, 4-phenylane | biz (6-oxido-64-dibent [c, a) [1, 2] ozaphosphorin-6-y1)methylane [-1, 4-phenylaneisrinocarbonylane] CM 2 CSM 1171-47-7 CMF C17 H10 F6 04 -6%-dibenz|c,e||1,2|oxaphosphorin-6-onyl-1,4-phanylans|2,2,2-trifluoro-1-nylanscarbonyl| (9C1) (CA INDEX 179549-78-0 CAPUTS

3-Bannenedioerbooylic acid. 5-(1.1-dimethylethyl)-, polymer with

1.4'-lbis16'-onide-8t-dibe nn to.ell11.2|onephosphoran-62/losethylene|bis1bonnenesins||(52)||(CA.1HUEN MAME)| CMM 5323-03-3 CMM C15 H14 04 CRM 409082-90-2 CMF C37 H29 H2 O4 F2 CAPINE CONVENIENT SOIS ACE ON EIN
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EN 42364-90-3 CAPCUE
CN Phenol, 2,2'-|1,3-propanediylbis|Smino|(6-oxido-6N-

L4 AMENIX 4] OF 57 CAPLIE COPYRISKS 2018 ACE OF ETM [Continued]
CN Toly] instructionar broady 11-11, 1-diserbyleshyl-1-1, 3-phenylene I carbonyliniston-1, 4-phenylene [bis [6-oxido+64-dishert [c, 6]]]. 2[oxaphosphocin-6-yl]neshylene [-1, 4-phenylene] (PC1) (CA BROBEN MEM)

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PAGE 1-A

CEN 787-70-2 CMF C14 H10 64

ноус ОТО

PM 4705-06-01-5 CAPLUS CH POly|dmino-1,4-phenylans|bd: yllmethylans|-1,4-phenylans|mino-|9c1| |CA | PMCEN NAMES|

> CEN 409002-90-2 CMF C37 H29 N2 G4 F2

carbonyl (1, 1'-biphenyl)-4, 4'-diylcarbonyl)

THINCTORS COLUMNS TWO LANGE FOR COSTANY — AVAILABLE VIA OFFLINE FRINT *
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ANEXER 41 OF 57 CAPLES COMPARENT 2010 ACT on SIM (Continued) Oxido-6N-dibenx(c,e)[1,2]cnaphosphorin-6-yl](sethylene)=1,4-phenylene)
[9CI) (CA INDEX NAME)

ANDREA 44 OF 27 CAPAIR CONTRIBUTE 2010 ACC ON EIN (CONLINEED)

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CRM 423164-99-9 CRF C51 H40 H2 O6 F2 CM 2 CMN 1675-54-3 CMF C21 H24 O4 CM 1 CMN 409002-90-2 CMF C37 H20 N2 04 92 race, 1-a Language State of the State of -256 °C, good thermal stability of 360-427 °C, 2ds of 55-646 in nitrogen and 25-466 in air at 700 °C. : EPH (Eymthetic preparation): PPEP (Preparation): RA th) esis of phosphorus-containing diamine monomer and in CSN 409092-90-2 CMF C37 H20 M2 G4 P2 L4 ANSWER 46 OF 31 CARCUE COPUSIGNT 2010 ACE on STW (Continued)
FOR 201724-79-2 CARCUE
Le-pyrica2-1-disons, 1,1'-[mathyleashis:(F-ethyl-4-mathyl-4,1disons (1,1,1) toophosphosin-f-ylimsthylans Dist he measures (RC1) (CA
DOCK 2008. NPLMS COPMENSET 2010 ACE on SIX 2001:847401 CAPLUM 134:0865 Production method of organophosphorus fire-re agents. Semicos, Nicoshi; Kirayame, Zakussi; Ibemeto, PAGE 1-A CH 1
CH 409092-90-2
CH C37 H29 H2 G4 F2 MI INFORMATION:

TRANSPIT NO. PINO GATE APPLICATION NO. GATE
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TP 2000-14515 2006516
TRANSPIT 156:0055

CH 2 CRN 105391-33-1 CHF C27 H26 N2 O4

CM 2 CBM 13676-54-5 CMF C21 H14 H2 G4

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bis: [8,100-dbhydro-3-one-10-onde-10-phosphaphamanthrens-10-y1-)

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EN d5 PAGE 2-A

EN 480194-84-9 CAPOUR CN 1a-Psycole-2,5-disone, 1,1'-(jphenylphosphinylidene)di-3,1-phenylenelbii polyger visit 4,4'-lbis(5-axidu-6x-dibens)c.e|11,2)cosphosphorin-6-yl)nethylene|bis|Denzensonine|(2011)(A) 1000X 1000X CSN 347309-22-6 CMF C26 H17 H2 G5 P

Organophosphorus compound represented by (1), wherein R1 and R2 = N or alkyl, Y and X1-9 = N, alkyl, cyclosikyl, aryl, or aralkyl, and n = 1-3

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with modature resistance for elec. insulators)
IN 345310-65-6 CAPU/S
CH Methanediscens, N.N-bis | (6-oxido-6N-dibenz|c,e]ll, E]onaphosphorin-6-y1)methyll - (62. 3 Messay Massay) La SCHORD (1 OF 2) CANCES (COMPRISED [10]) ARE ON THE

ACCESSION OF SHORD

2001/2010 CANCES

2001/2010 The accylomitrile polymer-based fibrous moldings contain 2-30% dihydronophosphaphraemitrene onide-pendent dismide decivs. I IXI-X3 = H. halo. lower alkyl. cycloalkyl. aryl. aralkyl: R = alkylene. oaikylane. artylans, anylylene) and/or dihydrocomphosphaphenanthrene oxide-pendent polyesters 12 (K1-K3 = xees ax 1; n 21). Thus, 90 parts 93:7 acrylenitrila-visit god, acatata copolymer was blended with 10 parts 12.2-K.M'-bis-119,10-dihydro-9-ono-10-phosphaphenanthrene-10-oxide-10-

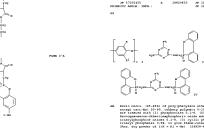
BM 100066-60-2 CAPLUS
CM 2,5-9yeolidinations, 1,1'-(4-methyl-1,3-phenylane)bis[5-(6-methodition |c,e||),2 |methodition |c,e||),2 |methodition |c,e|| (A INGEN MAME)

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 $\begin{array}{c} \text{MANNE 32 OF 37 CANOR CONTRIBUTE FOR ACL ON EXP. (Constrained)} \\ \text{MANNE 1-A.} \\ \text{Figs. 1-A.} \\ \text{F$



AB FRIST HILLS. (18-94) of polyphropiese schers) (I: 8.21 e Gl-4 milyd seeps start-bal (20-0), other polymers 5-3), and typere polymers 7-50, and ty

O. 21-25 = 8) [66490-37-4]], and scisig?-dissurbylphung), hosphete [179] [121-96-8] 3 perts was self-compounded, entrode sillationd. Testing of the pollitics showed self-inchinguishing in 1-3) average [12.6 s] [monitors [17.7 s], heat-distortion temperate Kamagh 5.45 kg/mag, notched 100 dispate transpath [129] [2 q-on/er, alongstion 324, and realt flow index 4.3 q/10 min, on

CCESSION MARKER:	1979:421000 CAPU/S
OCURENT HUREIGN:	91:21000
PIGINAL PEFERENCE NO. :	
ITLE:	Fire-resistant polyphenylene ether composition
NVENTOR (S):	Inexe, Ehinichi; Eugiyere, Jun; Teneke, Tsutor
	Hekanishi, Atsoo; Zeito, Toranosuke
ATENT ASSIGNME(S): enkyezho	Asahi-Dow Edd., Japan: Sanko Kaihatsu Kagaku
OURCE:	Jpn. Nokai Tokkyo Noho. 9 pp.
	CODEN: JOSEAF
OCUMENT TYPE:	Patent
AMERICANS:	Japanese
AMILY ACC. NVM. COUNT!	1

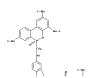
CN2-NN-CV NN2

N,H(or M,N')-bix((4-phenyl-6-oxido-6H-osphorin-6-yl)methyl)- (9CI) (CA INDEX NAME)

EN 76931-02-1 CAPU/S

CN 1.3.5-Remement-cleming.
N/N, N/-11[2-(1,2-dissetkylsthyl)-4,0-dissthyl-4oxido-64-dibent(c,s)[1,2]oxaphosphocia-6-yl]sethyl]- (9C1) [CA IMORA
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TN 70592-35-7 CAPLINS CN 1,3,4-Barnamatriassins, M1,N2,N4-tcis||2,4,0-tcis||1,1-dissethylathyl)-6-oxido-6N-dibanx||c,s||1,2]oxaphosphorin-6-y2||msthyl|- ||CA IMBEN MARS|

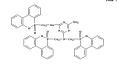


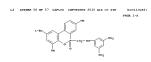
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PATENT INFORMATION:					
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
DE 2730345	4.3	19700112	ps. 1977-2730345	19770705	
DE 2730345	26.2	19790517			
DE 2730345	C3	12000110			
JP 53005253	A	19700110	JP 1976-70093	12760705	
JP 59025022	20	12040621			
NL 7707437	A	12700102	NL 1977-7437	12770705	
NL 166271	8	19910216			
NL 166271	c	19910715			
FR 2357602	4.3	19780203	FM 1977-20623	19770705	
PR 2357602	26.3	19900119			
GB 1567049	A	12000521	GE 1977-20102	12770705	
CA 1090230	A.2	12001021	CA 1977-202053	12770705	
PRIORITY APPLM. INFO.:			JP 1976-70093 A	19760705	

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NEMER 56 OF 57 CAPCUE COPYRIGHT 2810 ACG 5691-16-9 65691-17-0 65991-18-1 5691-18-2 65691-20-5 65991-21-6 5691-26-9 65691-25-0 65991-26-1 5691-26-9 65912-26-5

и, м^)-bis|(0-hexyl-2, 4-dimethyl-6-uxido-6m-dibens yl)methyll-6-phenyl- (9CI) (са INDEX NAME)





or N.H')-bis|(2.4-dichloro-6-onido-6H-sphorin-6-y1)emchy1]- (901) (CA IMURE HAME)

ne, N.N(oc N.N')-bis||2-(1, 1-dimethylethyl)-4,0--dibenx(c,e)|1,2lonaphosphocin-6-yl|methyl|- (9CI)

co. is title compat. I in F PM, Non-Dopp, N E P Not-Obj. No. Ed. S. Ed.

LA BATTER 17 of 37 CANNET COMPARED RED ACT on ENT Constrained a property of the constraint of the cons

EM 66499-32-9 CAPCUE CM 1,3,5-Trismine=2,4,6-brismin dibens[c,e][1,2]onsphosphos



